

## **AQA DESIGN & TECHNOLOGY: PRODUCT DESIGN (3D)**

This creative, technical and academic qualification gives students the practical skills, theoretical knowledge and confidence to succeed in a number of professional careers, such as mechanical and electronic engineering, architecture, automotive and industrial design.

This subject is designed to encourage students to take a broad view of Design & Technology, developing their capacity to design and make products, whilst appreciating the complex relationship between design, materials, manufacture and marketing. It is helpful if students have studied GCSE Design & Technology before commencing this course, but any student with a strong passion for design and wishing to pursue further education in the design and engineering field would be welcome.

The course will provide students with the opportunity to develop a range of skills, such as investigative, analytical, designing and making that are applied when solving problems. The emphasis of the course is on the application of their knowledge.

It is intended that students will have the opportunity to learn through practical activities through designing and making solutions to problems. The specification clearly identifies the areas and range of study without being prescriptive. The emphasis in the examinations and coursework is on the application of knowledge to provide solutions to real and relevant problems.

Students are encouraged to be independent learners, project managing the task, supported by departmental staff. Student progress is closely monitored and feedback given on a weekly basis. Students will spend at least one double lesson per week, concentrating on the knowledge and understanding aspects of the course. At least two double lessons per week will involve design and manufacturing functional products. Students are encouraged to work independently on design projects during their free periods and at lunchtimes.

In year 12, students will have the opportunity to design and make a variety of products developing their knowledge, skills and ability. In year 13, students will be encouraged to identify a design context or need. This will be their choice. They will then design a range of sophisticated and elegant design solutions. Finally they will manufacture a high quality product. The design project is supported by a comprehensive design portfolio of approximately 30 pages, of professional quality design work.

### **Assessment**

#### **Paper 1: Core technical principles and core designing and making principles.**

- 2 hour written paper
- 100 marks= 25% of the total A level marks

**Paper 2: Specialist knowledge, technical, design and making principles.**

- 2 hour written paper.
- 25% of the total A level marks

**Design and Make Task**

- 1 substantial design and make project of students choice.
- 45 hours
- 100 marks
- 50% of A Level

**Please speak to Mr Travis and Mr Cotton for further details.**